

 ICOM

VHF TRANSCEIVER

IC-V8

General (LM) version



Professional quality and functions

- Simple operation and tough construction
- 54×132×35 mm compact body
- Powerful 5.5W of output power
- 100 memory channels plus 1 call channel
- 5 character alphanumeric display
- Priority, program, memory, skip and tone scanning
- Built-in CTCSS and DTCSS encoder/decoder
- Built-in DTMF encoder
- Indicated "Function + Short-cut" menus
- Ni-MH or Ni-Cd battery pack available
- Optional DTMF decoder unit, UT-108 with ANI
- Optional voice scrambling unit, UT-109 or UT-110



Icom Inc.

SPECIFICATIONS

GENERAL

- Frequency coverage : 136-174MHz*
*Guaranteed range 144-148MHz
- Mode : FM (F3E, F2D)
- No. of memory Ch. : 107 (incl. 6 scan edges and 1 call)
- Frequency stability : ±10ppm (-10°C to +60°C)
- Operating temperature range:
-10°C to +60°C; +14°F to +140°F
- Power supply requirement : 7.2V DC (6.0-10.3V DC acceptable; Icom's battery pack only)
- Current drain (at 7.2V DC):

Tx	5.5W	2.0A
	0.5W	0.8A
Rx	Max. audio	250mA
	Standby	70mA
	Power saved	20mA

- Antenna connector : BNC (50Ω)
- Dimensions (proj. not incl.) : 54(W)×132(H)×35(D) mm;
- 2½(W)×5⅓(H)×1⅓(D) in
- Weight (approx.) : 350g; 12.3oz (w/ant. and BP-222N)

TRANSMITTER

- Output power : High 5.5W
(at 7.2V DC) Low 0.5W
- Spurious emissions : Less than -60dB
- Max. freq. deviation : ±5.0kHz
- Ext. mic. connector : 3-conductor 2.5(d)mm (1/10") /2.2kΩ

RECEIVER

- Receiving system : Double conversion super-heterodyne
- Intermediate freq. : 1st 21.7MHz
2nd 450kHz
- Sensitivity : 0.16μV (typ.; at 12dB SINAD)
- Squelch sensitivity : 0.10μV (typ.; threshold)
- Selectivity : 65dB (typical)
- Intermodulation : 75dB (typical)
- Spurious and image rejection: 75dB (typical)

- Audio output power : 300mW with an 8Ω load (at 7.2V DC)
- Ext. SP connector : 3-conductor 3.5(d)mm (1/8") /8 Ω

Supplied accessories

- Battery case or battery pack* ● Desktop charger*
- Antenna ● Belt clip *depending on version

Applicable U.S. Military Specifications

Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Temp. Shock	503.1	I	503.2	I, II	503.3	I	503.4	I, II
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	-
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

All stated specifications are subject to change without notice or obligation.

OPTIONS

BATTERY PACKS AND CASE

- BP-208N** AA (LR6) batteries × 6
- BP-209N** Ni-Cd 7.2V/1100mAh
- BP-210N** Ni-MH 7.2V/1650mAh
- BP-222N** Ni-Cd 7.2V/600mAh



BATTERY PACKS AND CASE	BP-208N	BP-209N	BP-210N	BP-222N
OUTPUT POWER	5.5W typ.*	5.5W typ.	5.5W typ.	5.5W typ.
BATTERY LIFE	-	7.5hours	11hours	4.0hours

Approx. battery life; Tx (Hi); Rx: standby=5:5:90 with auto power save
* The LOW output power selection is recommended.

REGULAR CHARGER



BC-146 DESKTOP CHARGER
+ **BC-147A/E AC ADAPTER**
Charges a battery pack, BP-209N, BP-210N or BP-222N with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. BC-137 is also available for regular charging.

RAPID CHARGER



BC-144N DESKTOP CHARGER + **BC-145A/E/V AC ADAPTER**
For rapid charging of battery pack, BP-209N, BP-210N or BP-222N. An AC adapter, BC-145, is supplied with the charger depending on version. Charging time: 1.5 to 2 hours. BC-119N is also available for rapid charging.
BC-121N MULTI-CHARGER + **AD-94** (Ver. 11) **DESKTOP CHARGER ADAPTER** + **BC-157 AC ADAPTER**
For rapid charging of up to 6 battery packs (Six AD-94s are required), BP-209N, BP-210N or BP-222N. An AC adapter, BC-157, may be supplied, depending on version. Charging time: 1.5 to 2 hours.

SPEAKER-MICROPHONES



- HM-46L**: Slim dimensions. Equipped with an earphone jack and a transmit indicator.
- HM-75A**: Allows you to remotely select operating channel, etc., according to program.
- HM-158L**: Compact and durable body with screw-type connector. Equipped with an earphone jack and a revolving clip.
- HM-159L**: Full size durable microphone with revolving clip.
- HM-153L**: Durable earphone-microphone with revolving clip.

INTERNAL UNITS



- UT-108 DTMF DECODER**
Provides DTMF decode and ANI capabilities.
- UT-109/UT-110 VOICE SCRAMBLER UNITS**
Provides operating security.
UT-109: Non rolling type.
UT-110: Rolling type.

- CS-V8 CLONING SOFTWARE + OPC-478 CLONING CABLE**
Provides quick and easy programming of memory channel, memory names, etc.
- MB-86/MB-103 BELT CLIPS**
MB-103: Alligator type clip. Same as supplied.
MB-86: Swivel belt clip.
- MB-96N/MB-96F LEATHER BELT HANGERS**
MB-96N: Swivel belt hanger.
MB-96F: Fixed type belt hanger. Use with MB-103.
- OPC-474 CLONING CABLE**
Used for transceiver-to-transceiver data cloning.
- OPC-656 DC POWER CABLE**
For use the BC-121N with a DC power supply.
- SP-13 EARPHONE**
Provides clear audio even in noisy environments.
- HS-51 HEADSET**
For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer.

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